KNOCK DETECTION DEVICE

5

ABSTRACT OF THE DISCLOSURE

A knock detection device that can not only detect knock accurately, but can also detect heavy knock 10 quickly. Cylinder pressure is detected by a pressure sensor installed in each cylinder in an internal combustion engine. As the occurrence or non-occurrence of heavy knock is determined based on the ratio between the maximum value of cylinder pressure fluctuation and 15 the maximum value of cylinder pressure divided by a prescribed value, it becomes possible to detect the occurrence of heavy knock quickly. If it is determined that heavy knock has occurred, a knock suppression measure involving, for example, reducing the spark 20 advance angle, is immediately applied, thus preventing damage to the internal combustion engine.